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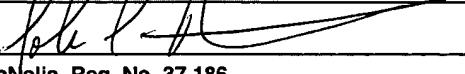
		Application Number	10/824,059
		Filing Date	April 13, 2004
		First Named Inventor	Behzad Dariush
		Group Art Unit Number	3738
		Examiner Name	Not Yet Known
Total Number of Pages in This Submission	9*	Attorney Docket Number	23085-08887

ENCLOSURES (check all that apply)

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REMARKS: *Page count does not include cited references.

SIGNATURE OF ATTORNEY OR AGENT

Signature:		
Attorney/Reg. No.:	John T. McNelis, Reg. No. 37,186	Dated: 21 June 2006

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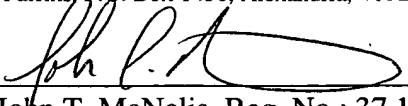
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Behzad Dariush
APPLICATION NO.: 10/824,059
FILING DATE: April 13, 2004
TITLE: Gravity Compensation Control System and Method Using Multiple Feasibility Parameters
EXAMINER: Not Yet Known
GROUP ART UNIT: 3738
ATTY. DKT. NO.: 23085-08887

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO/SB/08A listing references for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;

- after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:
 - attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(c); OR
 - Applicant certifies pursuant to 37 CFR § 1.97(e) that:
 - each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
 - no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- on or before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; (2) a notice of allowance under 37 CFR § 1.311; or (3) an action that otherwise closes prosecution in the application, and:
 - Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
 - each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement;
 - no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this

certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

- attached hereto is the fee set forth under 37 CFR § 1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(d); OR
- after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.
- This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. _____, filed on _____, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- Copies of any foreign patent documents and non-patent literature cited herein are enclosed.
- Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,

BEHZAD DARIUSH

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JUN 26 2006



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet

1 of 5

Complete if Known	
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Filing Date	April 13, 2004
First Named Inventor	Behzad Dariush
Art Unit	3738
Examiner Name	Not Yet Known
Attorney Docket Number	23085-08887

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No.	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A1	US-2005/0104548 A1	05-19-2005	Takenaka et al.
	A2	US-2005/0102111 A1	05-12-2005	Dariush et al.
	A3	US-2004/0158175 A1	08-12-2004	Ikeuchi et al.
	A4	US-2004/0158175 A1	08-12-2004	Ikeuchi et al.
	A5	US-6,785,591 B1	08-31-2004	Hansson
	A6	US-6,750,866 B1	06-15-2004	Anderson III
	A7	US-2004/0107780 A1	06-10-2004	Kawai et al.
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	A10	US-6,633,783 B1	10-14-2003	Dariush et al.
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	A14	US-6,289,265	09-11-2001	Takenaka et al.
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	A17	US-5,982,389	11-09-1999	Guenter et al.
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	A21	US-5,362,288	11-08-1994	Razon
	A22	US-5,136,227	08-04-1992	Nakano et al.
	A23	US-5,044,360	09-03-1991	Janke
	A24	US-4,834,200	05-30-1989	Kajita
	A25	US-4,786,847	11-22-1988	Daggett et al.
	A26	US-4,244,120	01-13-1981	Harris

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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23085/08887/DOCS/1619211.1

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Art Unit	3738
Examiner Name	Not Yet Known
Attorney Docket Number	23085-08887

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
	B1	JP 2000-249570	09-14-2000	Nippon Telegr & Teleph Corp	
	B2	RU 2 107 328 C1	03-20-1998	Nurislamovich, Latypov (English Abstract only)	
	B3	WO 00/35346	06-22-2000	Stanford University	

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
	C1	AGARWAL, S.K. et al., "Theory and Design of an Orthotic Device for Full or Partial Gravity-Balancing of a Human Leg During Motion," <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , June 2004, Vol. 12, No. 2.	
	C2	AKHLAGHI, F. et al., "In-shoe Biaxial Shear Force Measurement: the Kent Shear System," <i>Medical & Biological Engineering & Computing</i> , July 1996, Vol. 34, pp. 315-317.	
	C3	ANDERSON, Frank C., "Static and Dynamic Optimization Solutions for Gait are Practically Equivalent", <i>Journal of Biomechanics</i> , 2001, Vol. 34, pp. 153-161	
	C4	ANDERSON, F. et al., "Dynamic Optimization of Human Walking," <i>Journal of Biomechanical Engineering</i> , October 2001, Vol. 123, pp. 381-390.	
	C5	ANDERSSEN, R. et al., "Numerical Differentiation Procedures for Non-Exact Data," <i>Numerische Mathematik</i> , 1974, Vol. 22, pp.157-182.	
	C6	ATKESON, C.G., "Learning Arm Kinematics and Dynamics", <i>Annual Reviews, Inc.</i> , 1989, Vol. 12, pp. 157-183	
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	C10	BURDEA, G. ET AL., "Virtual Reality Technology", 1994, pp. 33-37, <i>John Wiley and Sons, Inc.</i>	
	C11	BUSBY, H.R. et al., "Numerical Experiments With a New Differentiation Filter," <i>Transactions of the ASME - Journal of Biomechanical Engineering</i> , November 1985, Vol. 107, pp. 293-299.	
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	C13	CRAIG, J.J., "Nonlinear Control of Manipulators," <i>Introduction to Robotics Mechanics and Control</i> , 2 nd Ed., 1989, Chapter 10, PP. 333-361.	

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	C14	CROWNINSHIELD, R.D. et al., "A Physiologically Based Criterion Of Muscle Force Prediction In Locomotion," <i>Journal of Biomechanics</i> , Vol. 14, No. 11, 1981, pp. 793-801.	
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	C19	DARIUSH, B., "A Well-Posed, Embedded Constraint Representation of Joint Moments From Kinesiological Measurements," <i>Journal of Biomechanical Engineering</i> , August 2000, Vol. 122, pp.437-445.	
	C20	DELP, S. et al., "A Computational Framework for Simulating and Analyzing Human and Animal Movement," <i>IEEE Computing in Science and Engineering</i> ; Vol. 2, No. 5, 2000, pp.46-55.	
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	C29	HEMAMI, H., "A Feedback On-Off Model of Biped Dynamics", <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , July	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS

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		1980, Vol. SMC-10, No. 7, pp. 376-383	
	C30	HEMAMI, H. et al., "Modeling And Control Of Constrained Dynamic Systems With Application To Biped Locomotion In The Frontal Plane," <i>IEEE Transactions on Automatic Control</i> , Vol. 4, No. 4, August 1979, pp. 526-535.	
	C31	HEMAMI, H., "A State Space Model for Interconnected Rigid Bodies," <i>IEEE Trans. on Automatic Control</i> , 1982, pp. 376-382, Vol. 27, no. 2.	
	C32	HOSEIN, R. et al., "A Study of In-shoe Plantar Shear in Normals," <i>Clinical Biomechanics</i> , 2000, Vol. 15, pp. 46-53.	
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	C40	KLEIN, C. A. et al., "Review Of Pseudoinverse Control For Use With Kinematically Redundant Manipulators, <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , Vol. 13, No. 2, 1983, pp. 245-250.	
	C41	PARK, J.H. et al., "Biped Robot Walking Using Gravity-Compensated Inverted Pendulum Mode and Computed Torque Control, 1998 IEEE Conference on Robotics and Automation, May 16-20, 1998, pp. 2528-2533, Vol. 4, [online] Retrieved from the Internet->URL: http://ieeexplore.ieee.org/xpl/abs_free.jsp?arNumber=680985	
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	C43	RAHMAN, T. et al., "A Simple Technique to Passively Gravity-Balance Articulated Mechanisms," <i>Journal of Mechanical Design</i> , 1995, pp. 655-658, Vol. 117, No. 4.	
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	C45	SHADMEHR, R. et al., "Interference in Learning Internal Models of Inverse Dynamics in Humans," <i>Advances in Neural</i>	

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		Information Processing Systems, 1995, pp. 1117-1224, Chapter 7.	
	C46	SHADMEHR, R., "Learning Virtual Equilibrium Trajectories for Control of a Robot Arm", Neural Computation, 1990, Vol. 2, pp. 436-446	
	C47	SIMONS, W. et al., "Differentiation of Human Motion Data Using Combined Spline and Least Squares Concepts," Journal of Biomechanical Engineering, Transactions of the ASME, August 1991, Vol. 113, pp. 348-351.	
	C48	THELEN, D. et al., "Generating Dynamic Simulations of Movement Using Computed Muscle Control," <i>Journal of Biomechanics</i> , 36, 2003, pp. 321-328.	
	C49	Transmittal of the International Search Report, PCT/US02/20829, December 12, 2002, 4 pages.	
	C50	"Unsupported Standing with Minimized Ankle Muscle Fatigue," [online] Retrieved from the Internet<URL: http://ieeexplore.ieee.org/iel5/10/29163/01315854.pdf >	
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